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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/676,654	10/01/2003	Koji Takinami	MTS-3475US	8959	
23122	7590 11/21/2005		EXAMINER		
RATNERPRESTIA			CHANG, JOSEPH		
P O BOX 98 VALLEY F	0 ORGE, PA 19482-0980		ART UNIT	PAPER NUMBER	
			2817		
			DATE MAILED: 11/21/2009	DATE MAILED: 11/21/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summer		10/676,654	TAKINAMI ET AL.	(m)			
	Office Action Summary	Examiner	Art Unit				
		Joseph Chang	2817				
Period fo	The MAILING DATE of this communication apported to the communication apport.	pears on the cover sheet with the	correspondence addres	:s			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS fror to cause the application to become ABANDON	N. imely filed  In the mailing date of this community (35 U.S.C. \$ 133)				
Status							
1)	Responsive to communication(s) filed on 12 S	entember 2005					
2a)□		action is non-final.					
3)□	Since this application is in condition for allowa		osecution as to the me	rits is			
.—	closed in accordance with the practice under E						
Disposit	ion of Claims						
4)⊠	Claim(s) <u>1-18</u> is/are pending in the application						
	4a) Of the above claim(s) <u>13-17/13</u> is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
6)🖂	Claim(s) <u>1, 12, 17/1, 18</u> is/are rejected.						
7)⊠	Claim(s) <u>2-11</u> is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	ion Papers						
9)	The specification is objected to by the Examine	ır.					
· <u> </u>	The drawing(s) filed on <u>01 October 2003</u> is/are		d to by the Examiner.				
	Applicant may not request that any objection to the	•	•				
	Replacement drawing sheet(s) including the correct			121(d).			
11)	The oath or declaration is objected to by the Ex						
Priority ι	ınder 35 U.S.C. § 119						
12)⊠	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
	1. Certified copies of the priority document	s have been received.					
	2. Certified copies of the priority document		ion No				
	3. Copies of the certified copies of the prior			je			
	application from the International Bureau	ı (PCT Rule 17.2(a)).					
* 5	See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachmen	• •						
1) Notic	e of References Cited (PTO-892)	4) Interview Summary					
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal R	rate Patent Application (PTO-152)	)			
	r No(s)/Mail Date	6) Other:	,				

#### **DETAILED ACTION**

## Response to Amendment

Applicant's arguments, see a certified English translation of the priority document, filed 9/12/05, with respect to the rejection(s) of claim(s) 1-3, 12, 17/1 and 18 under 35 USC 102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Friedman et al. US Patent 6,292,065.

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 12, 17/1 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Friedman et al. US Patent 6,292,065.

Regarding claims 1 and 18, Friedman et al. discloses a VCO (Fig.1) comprising: inductors (138, 140), four variable capacitors (126, 128, 122, 124), blocking capacitors (134, 136, 130, 132), a negative resistance circuit (146, 148), reference generation means (is necessarily present in bias voltage terminals (166, 168, 162, 164)), the inductors, variable capacitors and the negative resistance circuit connected in parallel, a predetermined reference voltage is inputted the bias voltage terminals (166, 168, 162, 164), a control voltage inputted the terminals 118 and 120, and four variable capacitors are two different pairs: 122, 124 and 126, 128.

Regarding claim 12, Fig. 3 shows an MOS transistors 326, 328,, 322, 324 as variable capacitance elements.

Regarding claim 17/1, column 1, lines 15-39 disclosed a radio communication apparatus as recited in the claim.

### Allowable Subject Matter

Claims 2-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the best prior art of record, Friedman et al., taken alone or in combination of other references, does not teach or fairly suggest a specific arrangement of the variable capacitors or the voltage generation means as set forth in the claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Chang whose telephone number is 571 272-1759. The examiner can normally be reached on Mon-Fri 0700-1730.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph Chang Patent Examiner Art Unit 2817